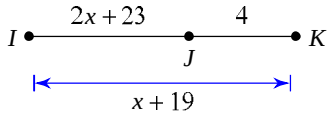
Geometry Name_____

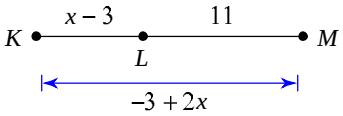
Practice EXAM

Date_____ Period____

Solve for *x*.

1) 

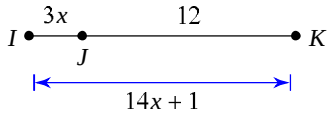
A) 7 B) –9
C) 11 D) –8

2) 

A) 11 B) 9
C) 8 D) –5

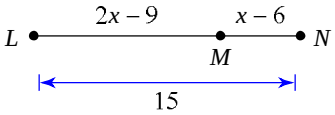
Find the length indicated.

3) Find *IJ*



A) 4 B) 5
C) 2 D) 3

4) Find *LM*



A) 9 B) 11
C) 17 D) 7

Find the midpoint of the line segment with the given endpoints.

5) $(-1, 5), (-7, -5)$

A) $(3, 5)$ B) $(-4, 0)$
C) $(-13, -15)$ D) $(2, -6)$

6) $(-5, 8), (0, 6)$

A) $(5, 4)$ B) $\left(-2\frac{1}{2}, 7\right)$
C) $\left(1\frac{1}{2}, 3\right)$ D) $\left(-2\frac{1}{2}, 1\right)$

Find the distance between each pair of points.

7) $(-8, 7), (-8, 7)$

A) $2\sqrt{113}$ B) 0
C) $2\sqrt{15}$ D) $\sqrt{30}$

8) $(6, 2), (-6, 7)$

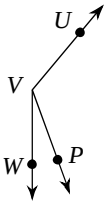
A) 9 B) $\sqrt{17}$
C) 13 D) $2\sqrt{5}$

Find the midpoint of the line segment with the given endpoints.

9) $(8, 7), (-1, -8)$

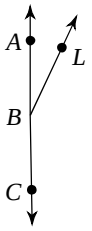
10) $(-9, -4), (-8, 2)$

11) $m\angle UVW = 18x - 4$, $m\angle PVW = 20°$, and $m\angle UVP = 16x - 8$. Find x.



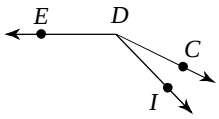
A) -3 B) -6
C) 8 D) 2

12) $m\angle LBC = 154°$, $m\angle ABC = 43x + 7$, and $m\angle ABL = 5x + 5$. Find x.



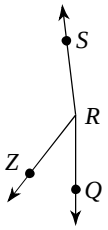
A) -1 B) 4
C) 10 D) 2

13) $m\angle CDI = x + 27$, $m\angle IDE = x + 141$, and $m\angle CDE = 154°$. Find $m\angle IDE$.



A) 84° B) $-7°$
C) 95° D) 134°

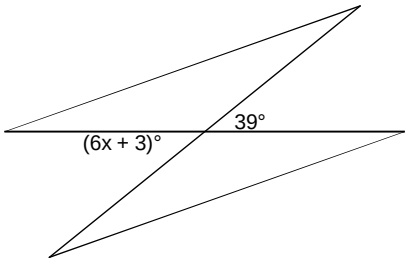
14) $m\angle ZRS = 135°$, $m\angle QRS = -1 + 58x$, and $m\angle QRZ = 11x + 5$. Find $m\angle QRS$.



A) 147° B) $-1°$
C) 150° D) 173°

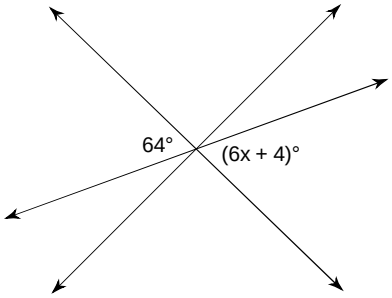
Find the value of x.

15)



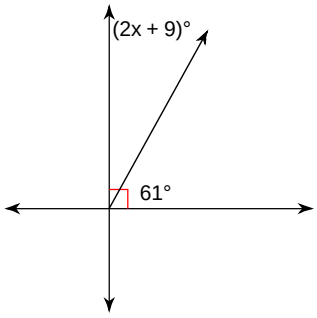
A) -1 B) 4
C) 5 D) 6

16)



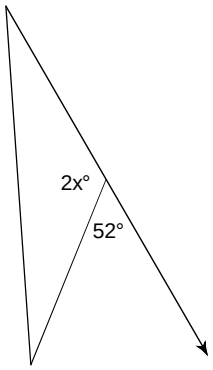
A) 8 B) 2
C) 10 D) -2

17)



A) 27 B) 22
C) 10 D) 16

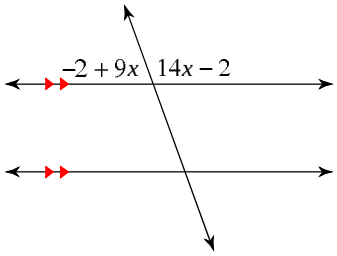
18)



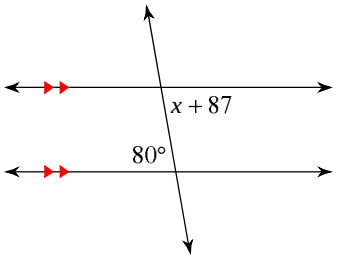
A) 65 B) 64
C) 58 D) 60

Solve for *x*.

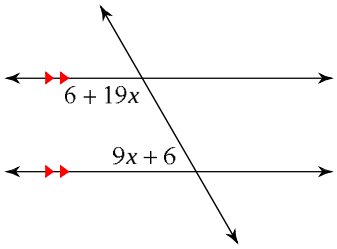
19)



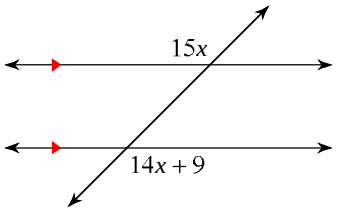
20)



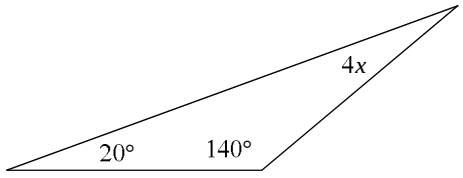
21)



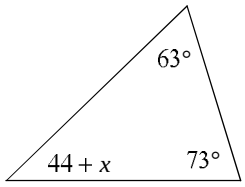
22)



23)



24)



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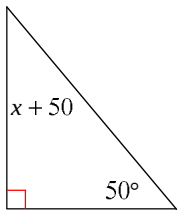
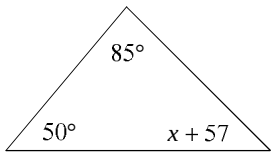
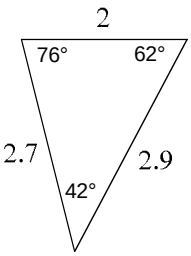


26)



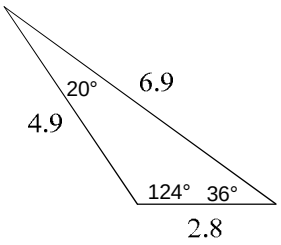
Classify each triangle by its angles and sides.

27)



A) right isosceles
B) obtuse isosceles
C) acute obtuse
D) acute scalene

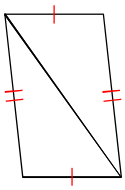
28)



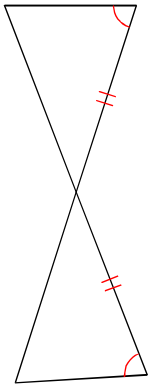
A) acute scalene
B) obtuse scalene
C) acute isosceles
D) acute right

State if the two triangles are congruent. If they are, state how you know.

29)

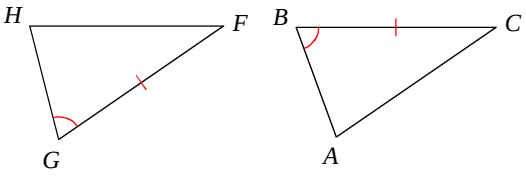


30)



State what additional information is required in order to know that the triangles are congruent for the reason given.

31) AAS



32) ASA